

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/IB02/05253

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : C12N 15/82, 15/90, 15/63, 15/66; A01H 5/00  
US CL : 435/ 69.1, 69.7, 468, 470; 800/278; 288, 290, 293, 295, 298, 320.2

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 435/ 69.1, 69.7, 468, 470; 800/278; 288, 290, 293, 295, 298, 320.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
WEST, Agricola, CAplus, Biosis

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0359617 A2 (PLANT GENETIC SYSTEMS, N.V.) 21 March 1990 (21.03.90), page 2, lines 1-35; page 4, lines 20-38 and line 63 to page 5, line 25; page 5, lines 44-59; page 6, lines 5-24 and 39-59; page 8, line 61 to page 10, line 50; page 11, lines 5-15; page 12, line 1 to page 13, line 45; page 16, line 49 to page 17, line 15.	1-4, 13-19
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Y		5-9
X	YU et al. Waterlogging Influences Plant Growth and Activities of Superoxide Dismutases in Narrow-Leaved Lupin and Transgenic Tobacco Plants. J. Plant Physiol. 1999, Vol. 155, pages 431-438, see whole document.	1-4, 14-19
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Y		5-9, 13
X	TANAKA et al. Salt Tolerance of Transgenic Rice Overexpressing Yeast Mitochondrial MnSOD in Chloroplasts. Plant Sci. 1999, Vol. 148, pages 131-138, see whole document.	1-4, 7, 13-19
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Y		5, 6, 8, 9
X	VAN BREUSEGEM et al. Effects of Overproduction of Tobacco MnSOD in Maize Chloroplasts on Foliar Tolerance to Cold and Oxidative Stress. J. Exp. Bot. January 1999, Vol. 50, No. 330, pages 71-78, see whole document.	1-4, 7, 14-19
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Y		5, 6, 8, 9, 13



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

11 July 2003 (11.07.2003)

Date of mailing of the international search report

28 JUL 2003

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## INTERNATIONAL SEARCH REPORT

## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	McKERSIE et al. Superoxide Dismutase Enhances Tolerance of Freezing Stress in Transgenic Alfalfa ( <i>Medicago sativa L.</i> ). <i>Plant Physiol.</i> 1993, Vol. 103, pages 1155-1163, see whole document.	1-4, 14-19
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Y		5-9, 13
X	US 5,538,878 (THOMAS et al.) 23 July 1996 (23.07.96), column 3, lines 1-50; column 4, line 28 to column 5, line 30; column 6, lines 34-52; column 7, line 18 to column 8, line 5; column 9, line 40 to column 14, line 19; column 15, line 20 to column 22, line 65.	1-4, 7, 9, 13-19
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Y		5, 6, 8
X	YU et al. Increased Tolerance to Mn Deficiency in Transgenic Tobacco Overproducing Superoxide Dismutase. <i>Ann. Bot.</i> 1999, Vol. 84, pages 543-547, see whole document.	1-4, 14-19
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Y		5-9, 13
X	VAN CAMP et al. Elevated Levels of Superoxide Dismutase Protect Transgenic Plants Against Ozone Damage. <i>Biotechnol.</i> February 1994, Vol. 12, pages 165-168, see whole document.	1-4, 14-19
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Y		5-9, 13
X	SLOOTEN et al. Factors Affecting the Enhancement of Oxidative Stress Tolerance in Transgenic Tobacco Overexpressing Manganese Superoxide Dismutase in the Chloroplasts. <i>Plant Physiol.</i> 1995, Vol. 107, pages 737-750, see whole document.	1-4, 15-19
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Y		5-9, 13, 14